



# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

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March 22, 1995

TO: Minerals File

FROM: Tom Munson, Reclamation Hydrologist *TM*

RE: Site Inspection, Jumbo Mining Company, Drum Mine, M/027/007, Millard County, Utah

Date of Inspection: March 20, 1995  
Time of Inspection: 11:00 a.m. - 5:00 p.m.  
Conditions: Overcast, cool and windy  
Participants: See attached attendance list

Purpose of Inspection: To accompany BLM, and State DEQ personnel on a site inspection to evaluate minesite conditions and to discuss/observe JMC's response to recent BLM noncompliance concerns over the storage and handling of hazardous wastes/materials.

## SYNOPSIS

A brief meeting was held in the mine office with Mr. Hartshorn after all state and federal personnel arrived at the mine site. Following introductions, and an explanation of the intent of our inspection, Mr. Hartshorn discussed what had recently been done in response to their receipt of the BLM's noncompliance letter. Mr. Hartshorn indicated that JMC personnel had completed a series of inventories resulting in the identification and segregation of the hazardous waste (RCRA) materials found on site. Written inventory lists were provided to the attendees. After this discussion, Mr. Hartshorn led the group on a tour of the analytical lab, the enclosed gold extraction/processing facilities, the process ponds, the fuel storage tanks and power generator area, the shop and used oil storage areas, the landfill/waste dump area, the explosives magazine area, and the ditches associated with Hi-Grade Heaps 1, 2, and 3.

## Shop Pad Area

The Diesel fuel tanks, old buried gasoline tanks, the used oil tanks, the electrical generator area, and the water tank were inspected visually and their physical conditions were noted by all concerned agencies.



### **Lab and Process Area**

A walk through of the lab and the process area was carried out and the process was explained by Mr. Hartshorn. The lab and process area adjacent to the lab was not visited during the March 9, 1995 inspection and as a consequence, no changes since that last visit could be noted.

### **Process Ponds**

The Barren and Pregnant ponds were observed and it was observed that the cyanide drums adjacent to the ponds had been unstacked and rearranged in the same location as they were observed on March 9, 1995. The concern about them being preciously perched was alleviated, but the drums still remain exposed to the elements. Mr. Hartshorn stated that he had been certified to handle Cyanide by MSHA and that he felt that the best location for the drums was adjacent to the ponds where a spill would go into the Barren pond.

Adjacent to the Barren pond are several large wooden boxes of charcoaled coconut shells used in the processing of gold. Mr. Hartshorn stated that these shells had been acid washed with hydrochloric acid and rinsed with water. They will be recharcoaled and reused, according to Mr. Hartshorn.

### **Waste dump**

The Waste Dump area was surveyed and based on the attached inventory of waste drums carried out by Mr. Hartshorn, a total of 157 barrels were found. The contents and the number barrels is listed in the attached inventory. The materials found in the barrels, according to the survey conducted by Mr. Hartshorn, were cement, oils, used oils, and anti-freeze. There were 53 returnable plastic barrels which could be recycled.

The Barrel Remediation Plan was given to the attendees by Mr. Hartshorn and is attached as a handout.

### **Powder Magazines**

The powder magazines were observed by all agencies and the contents were outlined in a handout given to the attendees. All powder was destroyed. The inventory is attached to this memo.

### **Pit Area**

The pit area was observed by the BLM, DEQ, and DERR. Questions were raised about the powder magazines in one of the pits (Mr. Hartshorn stated was full of reclamation seed) and a bucket of grease supposedly left behind by the contractor. Mr. Hartshorn stated He would take care of the bucket of grease.

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**Ditches associated with Heap Leach Pads 1, 2, and 3**

Mark Novack, Wayne Hedberg, Mr. Hartshorn, and myself walked portions of the perimeter of the Heaps 1, 2, and 3 and observed various rips and tears in the plastic liners associated with the solution conveyance ditches, as well as, areas of sloughed ore which had blocked the perimeter ditches. Mr. Hedberg later mentioned to Mr. Hartshorn that the deteriorating condition of those ditches was a concern to the Division. It was visually apparent to all that the usefulness of those liners as collection features was questionable at best.

**Drum Mine Power System**

Mr. Hartshorn gave the attendees a copy of a survey taken by Mr. C.E. Bowen, an MSHA electrical inspector, stating that these transformers were the dry air cooled type and no PCB's were present. The survey signed by Mr. Bowen is attached.

**Recommendations for Follow-up**

A follow-up meeting at the Division of Oil, Gas, and Mining offices will occur on March 27, 1995 to discuss what future steps will need to be taken in regards to the Drum Mine site, concerning clean up of the hazardous wastes. The BLM will take the lead in regards to future correspondence to Mr. King, addressing Mr. King's response to the BLM's Notice of Non-Compliance letter, dated March 10, 1995, sent to Mr. King. The meeting will be an attempt to summarize and consolidate all the responsible agency concerns under one response to Mr. King.

jb  
Attachments  
c.c. Rody Cox, BLM, House Range R.A.  
M027007.TM2

# Drum Mine Site Inspection

Name	Affiliation	Phone #
Jason Knowlton	UDER/DERX	801 536-4100
Kimmel King	Rinchem, Co. Inc.	801 763-0120
ERIC BAIDEN	DE & Haz. waste	
Jeff Vandel	" "	(801) 538-6170
Rody Cox	BLM	(801) 743-6811
DOUG TAYLOR	DEW/DSHW	(801) 538-6170
Tom Mungson	DOGM	801 538-5340
Mark Novak	DEQ/DWR	801 538-6146
WM WAGNER	BLM UTAH STATE OFFICE	(801) 539-4062
Ed Bush	BLM Kirtland Dist. Office	(801) 886-8221
Wayne Hedberg	DOGM	(801) 538-5340
Dave Hartshorn	Zumbo Mining Co.	

**BARREL REMEDIATION FOR THE 157 BARRELS ON WASTE DUMP**

**PLASTIC BARRELS--return to supplier**

**CEMENT BARRELS--use cement for reclamation (drill hole  
plugging, etc.) and dispose of barrels in  
permitted disposal trench**

**CHEVRON BARRELS--return to Sperry Oil in Delta**

**EMPTY OIL/ANTIFREEZE BARRELS--steamclean and dispose on  
site or haul to recycling center**

**PARTIALLY FILLED OIL BARRELS--haul to Ag Center in Delta for  
disposal**



March 17, 1995

POWDER MAGAZINE INVENTORY

205 bags ANFO (ammonium nitrate)

1 box safety fuse

9 boxes (2000' ea) E-cord

9 boxes (2000' ea) D-cord

5 boxes 1/2 & 1 pound boosters

1/2 box fuse lighters

NOTES:

1. All material have indefinite shelf life if kept dry (verification can be obtained from Burt Explosives)
2. All powder (1x8 dynagel sticks) have been destroyed

CAP MAGAZINE INVENTORY

3 boxes 25MS delays

1 1/2 boxes #6 caps

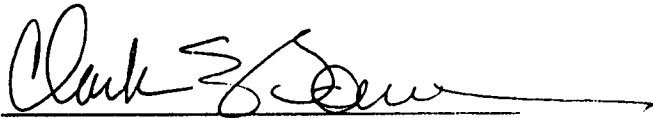
03/15/95  
C.E. Bowen  
P.O. Box 293  
Eureka, UT 84628  
801-433-6847

Sirs:

I inspected the Drum Mine power system and found the following transformers:

1. G/S Transformer      Dry air cooled  
S5H25      Series D  
LV 240/120 VAC  
25KVA  
No serial number
2. Acme Transformer      Dry air cooled  
T-1A-S3312-35      Style G  
SV 480/120 VAC  
30 KVA
3. International Transformer      Dry air cooled  
Cat # 37S73H6  
37.5 KVA at 240/480 - 120/240 VAC  
SN # 14876
4. MGM Transformer      Dry air cooled  
100KVA at 240/480 - 120/240VAC  
SN # 8303-100SD-002-2
5. MGM Transformer      Dry air cooled  
9KVA @ 240/480 - 120/240VAC  
SN # 8303-90-008-1      CAT # T9A3K2
6. MGM Transformer      Dry air cooled  
225KVA @ 240/480 -120/240VAC  
Cat # T225A3A2

There is no cooling oil used in any of the transformers on site. They are the dry type units, thus no PCB's are present on the sites electrical system



C.E. Bowen  
423388667  
MSHA Elec. L/M Volt Sur  
MSHA Elec. High Volt U/S

March 17, 1995

DRUM MINE WASTE DUMP BARREL INVENTORY

1. RETURNABLE PLASTIC BARRELS--53 TOTAL

2 Muriatic acid  
37 black caustic  
4 blue caustic  
10 Millspere - *ANTI SCALENT*

2. BARRELS CONTAINING CEMENT--18 TOTAL

3. RETURNABLE EMPTY CHEVRON OIL BARRELS--7 TOTAL

4. EMPTY OIL AND ANTIFREEZE BARRELS--42 TOTAL

5. BARRELS WITH PARTIAL PETROLEUM PRODUCT CONTENT--37 TOTAL

*USED OIL  
HYDRAULICS  
MINERAL OIL*

SUBTOTAL OF BARRELS ON WASTE DUMP = 157

OTHER BARRELS

5 TRASH/BURN BARRELS

NUMEROUS RINSED CYANIDE BARRELS IN WASTE DISPOSAL TRENCH